

Appl. No. 10/701,848
Response dated Oct. 16, 2006
Reply to Office Action of Aug. 16, 2006

Listing of the Claims:

The following listing of claims replaces all prior listings of claims in the application.

1. (Previously Presented) A system that facilitates updating of firmware in an electronic device with a file system, the system comprising:
 - an electronic device comprising:
 - at least one of volatile and non-volatile memory;
 - loader software that supports a plurality of loaders, wherein, during operation, each of the plurality of loaders performs downloading of specific information for updating firmware;
 - update software that supports retrieving the information for updating firmware in the electronic device; and
 - communication software that administers communicating the information for updating firmware from a server.
2. (Previously Presented) The system according to claim 1 wherein the system further comprises a driver software that communicates, to the update software, information about the retrieved information for updating firmware in the electronic device.
3. (Original) The system according to claim 1 wherein the server is an external system.
4. (Original) The system according to claim 1 wherein the server is a local file system.
5. (Original) The system according to claim 1 wherein the update software comprises:
 - loading software that retrieves updating information from the server;

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updating software that applies the retrieved information for updating firmware in the electronic device;

security software that supports secure communication between the server and the electronic device;

setting software that sets values of data to indicate information about the information for updating firmware; and

memory management software that manages accessing and manipulating information in the memory.

6. (Original) The system according to claim 5 wherein the update software further comprises a reference comprising at least one parameter related to the information for updating firmware.

7. (Original) The system according to claim 6 wherein the at least one parameter comprises a 4-byte state flag.

8. (Original) The system according to claim 6 wherein the at least one parameter comprises an address referencing the information for updating firmware.

9. (Original) The system according to claim 6 wherein the at least one parameter comprises an address referencing a backup section.

10. (Original) The system according to claim 6 wherein the at least one parameter comprises a 4-byte CRC value.

11. (Original) The system according to claim 5 wherein the security software controls information in the electronic device, wherein the information indicates whether the firmware in the electronic device needs updating.

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12. (Original) The system according to claim 6 wherein the security software utilizes the setting software to set the value of the at least one parameter.

13. (Original) The system according to claim 6 wherein the updating software uses the reference to determine whether the firmware in the electronic device needs updating.

14. (Original) The system according to claim 6 wherein the updating software uses the reference to determine the location of the information for updating firmware.

15. (Original) The system according to claim 1 wherein the update software utilizes a uniform resource locator (URL) to download information for updating firmware from the server.

16. (Currently Amended) A method for updating firmware or software in an electronic device having an operating system comprising file system, the method comprising:

receiving from a server information for updating the firmware or software;

with operating system support:

storing the information for updating firmware or software in a location in the file system; and

saving, in a memory reference, information identifying the location in the file system of the information for updating firmware or software; and

without the operating system support:

accessing the information identifying the location of the information for updating firmware or software in the file system; and

updating firmware or software in the electronic device employing the stored information for updating firmware or software by using the information identifying the location of the information for updating firmware or software in the file system.

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17. (Currently Amended) The method according to claim 16 further comprising determining whether the firmware or software needs to be updated when the electronic device reboots wherein, if it is determined that the firmware or software does not need updating, the method further comprises a normal start up of the electronic device.

18. (Cancelled).

19. (Currently Amended) The method according to claim ~~18~~-16 wherein the method further comprises communicating a confirmation of the updating of the firmware or software to the server.

20. (Currently Amended) The method according to claim ~~18~~-16 wherein the method further comprises testing the updated firmware or software for errors.

21. (Original) The method according to claim 20 wherein the method further comprises communicating any errors found to the server.

22. (Currently Amended) The method according to claim 16 wherein the electronic device retrieves status information from the information for updating firmware or software via the memory reference to determine whether the firmware or software needs to be updated using the information for updating firmware or software.